

2019 Forest Health Update

Report on summer activity



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Background

- Annually, DFFM conducts an aerial survey for dead and dying trees.
- DFFM certified arborists, entomologists, and service foresters ground truth data and provide land managers and the public with information.
- In times of significant drought, trees become increasingly stressed and highly susceptible to insect and disease infestation.



Forest Health Conditions in 2019 - RECAP

- **~455,053 acres** (preliminary draft data) of trees were impacted by bark beetles.
- That was an **increase of ~65%**, up from 275,933 acres in 2018.



Forest Health Conditions in 2019

Drought related bark beetle damage in ponderosa pine



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Forest Health Conditions in 2019

2018




2019





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Historic Forest Health Conditions

Year	2001	2002	2003	2017	2018	2019
Acres	82,323	509,601	1,683,412	45,003	275,933	~455,053


519%


230%

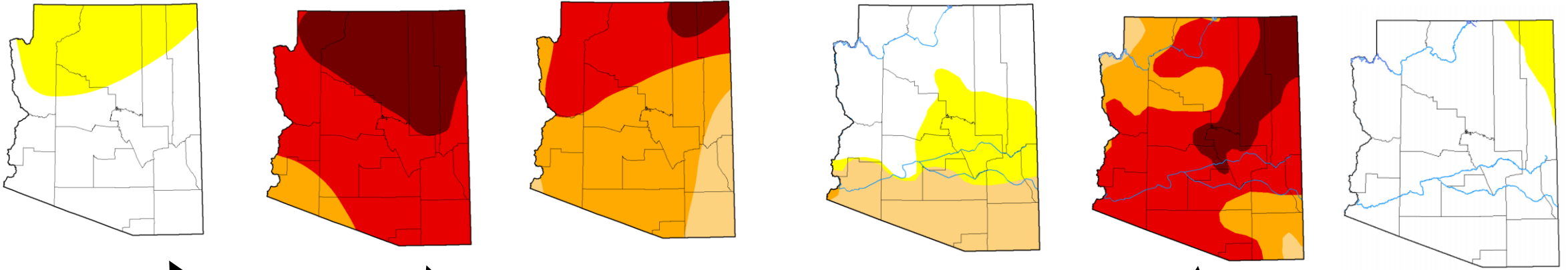

513%


65%



Historic Forest Health Conditions

June



Year	2001	2002	2003	2017	2018	2019
Acres	82,323	509,601	1,683,412	45,003	275,933	~455,053

Forest Health Conditions in 2019

- Forest and woodland vegetation are showing signs of improvement from record precipitation, however there was still some lingering effects, as expected
- Pinyon-juniper woodlands are continuing to show decline
- Defoliation of aspen across northern Arizona due to a foliar blight called Black Leaf Spot (~34k acres)



Final Thoughts

- Healthy trees are better able to defend from bark beetle attack
- Wet winters are important!
- There is still the potential for damage due to the exceptionally high populations of bark beetles in 2018, and holdovers in 2019



Thank You

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